

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10	((YUTAKA) near2 (SAEKI)).INV.	US-PGPUB; USPAT	OR	ON	2007/11/26 08:50
S2	2218	345/76.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 09:37
S3	1815	345/76.ccls. and current	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 09:37
S4	12	345/76.ccls. and current and (reference near1 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 09:40
S5	620	345/76.ccls. and current and (source near1 current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:24
S6	172	345/76.ccls. and current and (reference near1 current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 09:41
S7	16	345/76.ccls. and current and (source near1 current) and (adjust\$5 near3 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 09:43
S8	1	10/768668	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:34

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S9	231915	short near1 circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:24
S10	151	S9 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:24
S11	62	345/76.ccls. and current and (source near1 current) and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:24
S12	4	345/76.ccls. and current and (source near1 current) and S10 and ((vari\$4 or adjust\$5) near2 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:26
S13	11333	voltage near1 follower	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:34
S14	686	voltage near1 follower and ("345"/\$5.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:34
S15	560	voltage near1 follower and ("345"/\$5.ccls.) and current	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:35
S16	166	voltage near1 follower and ("345"/\$5.ccls.) and current and (second near3 amplifier\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:35

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S17	124	voltage near1 follower and ("345"/\$5.ccls.) and current and (second near3 amplifier\$4) and (operational near1 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 10:36
S18	124	voltage near1 follower and ("345"/\$5.ccls.) and current and (second near3 amplifier\$4) and (operational near1 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 13:06
S19	5	("5867141"   "5995072").PN. OR ("6160534").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/28 12:36
S20	27206	reference near1 current	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/28 12:36
S21	808	S20 and "345"/\$6.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/28 12:36
S22	28	S20 and "345"/\$6.ccls. and (reference near1 resistor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/28 12:38
S23	4	((("20020158862") or ("5680149")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/11/28 12:39
S24	32	("3982063"   "4694225"   "5103145"   "5194780"   "5262698"   "5357172"   "5428370"   "5459480"   "5600345"   "5625373"   "5708451").PN. OR ("5910792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/28 13:00
S25	124	voltage near1 follower and ("345"/\$5.ccls.) and current and (second near3 amplifier\$4) and (operational near1 amplifier) and (voltage near1 follow\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 13:07
S26	124	(voltage near1 follower) and ("345"/\$5.ccls.) and current and (second near3 amplifier\$4) and (operational near1 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 13:10

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S27	3	(voltage near1 follower) and ("345"/\$5.ccls. ) and current and (second near3 amplifier\$4) and (operational near1 amplifier) and (reference near1 resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 13:17
S28	19	(voltage near1 follower) and ("345"/\$5.ccls. ) and current and (second near3 amplifier\$4) and (operational near1 amplifier) and (gamma near1 correct\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 14:18
S29	38	"current adjustment resistor"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 14:19
S30	4	("3924143"   "4127783"   "6448844"   "6452453").PN. OR ("6791397").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/28 14:26
S31	0	"10768668"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 10:56
S32	1	"10/768668"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 10:56
S33	10	((YUTAKA) near2 (SAEKI)).INV.	US-PGPUB; USPAT	OR	ON	2008/03/06 09:05
S34	0	11-355607	US-PGPUB; USPAT	OR	ON	2008/03/06 09:05
S35	0	11-355607	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:06
S36	2990	tanaka near1 akira	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:06

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S37	0	tanaka near1 akira and (voltage near3 current near2 coversion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:08
S38	2323	345/76.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:10
S39	36574	reference near1 current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:11
S40	11338	op\$1amp\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:11
S41	940	S39 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:13
S42	120	S39 and S40 and (second near1 reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:12
S43	15	S39 and S40 and "345"/\$5.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 09:13
S44	3	("5250937"   "5404150").PN. OR ("6118423").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:15

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S45	55	("4562478"   "4684939"   "4808990"   "5034734"   "5061920"   "5066945"   "5109219").PN. OR ("5250937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:24
S46	350	current\$1drive	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:24
S47	0	current\$1drive14 and S39	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:24
S48	11	S46 same S39	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:26
S49	46	current\$1drive and S39	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:24
S50	4	((("6501449") or ("20030151374")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/06 09:27
S51	20	("4257003"   "4587463"   "5093654"   "5479425"   "5633651"   "5724519"   "5761230"   "5812102"   "5966110"   "6097302"   "6097360"   "6316879"   "6400349").PN. OR ("6501449").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:28
S52	16	("20010024186"   "5668569"   "5903246"   "6020864"   "6177767"   "6222357"   "6229508"   "6291942"   "6326938"   "6332661"   "6373454"   "6433488"   "6498592"   "6501449"   "6518962").PN. OR ("6972742").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 09:30
S53	16	("4158786"   "4668875"   "5130703"   "5250937"   "5343221"   "5646643"   "5650801"   "5734379"   "5781001").PN. OR ("6188395").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 10:26
S54	2	2001-387240	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 10:26
S55	7	2003-187988	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/06 10:52

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S56	16	("4158786"   "4668875"   "5130703"   "5250937"   "5343221"   "5646643"   "5650801"   "5734379"   "5781001").PN. OR ("6188395").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:00
S57	1	"20030001808"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:00
S58	0	"10064260"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:01
S59	2	"10/064260"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:01
S60	1	"7123234"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:01
S61	1	"10318022"	US-PGPUB; USPAT	OR	ON	2008/03/06 11:08
S62	6	("6107980"   "6175351"   "6331844"   "6509895"   "6590553"   "6639589").PN. OR ("7123234").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:13
S63	7	cascade same (current near1 source) same IC same resistor same compensat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:14
S64	2874	(current near1 source) same (second near1 (operational amplif\$4) OP\$1AMP\$6)	US-PGPUB; USPAT	OR	ON	2008/03/06 11:23
S65	128	(current near1 source) same (second near1 (operational amplif\$4) OP\$1AMP\$6) and lcd	US-PGPUB; USPAT	OR	ON	2008/03/06 11:24
S66	28	(current near1 source) same (second near1 (operational amplif\$4) OP\$1AMP\$6) and lcd and (voltage near1 follower)	US-PGPUB; USPAT	OR	ON	2008/03/06 11:32
S67	1201	(current near1 source) same (voltage near1 follower)	US-PGPUB; USPAT	OR	ON	2008/03/06 11:32
S68	86	(current near1 source) same (voltage near1 follower) and lcd	US-PGPUB; USPAT	OR	ON	2008/03/06 11:32
S69	12	("20020149607"   "20020186231"   "20060049868"   "20060192695"   "6373478"   "6535189"   "6570560"   "6731259"   "6750839"   "6850085"   "6950045"   "7023458").PN. OR ("7250891").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:37
S70	4	("6342782"   "6501467").PN. OR ("6897716").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 11:42
S71	120810	(current near1 source)	US-PGPUB; USPAT	OR	ON	2008/03/06 12:08
S72	20133	(current near1 source) and (op\$1amp (operational near1 ampli\$5))	US-PGPUB; USPAT	OR	ON	2008/03/06 12:08

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S73	7574	(current near1 source) same (op\$1amp (operational near1 ampli\$5))	US-PGPUB; USPAT	OR	ON	2008/03/06 12:08
S74	332	(current near1 source) same (op\$1amp (operational near1 ampli\$5)) and lcd	US-PGPUB; USPAT	OR	ON	2008/03/06 12:09
S75	242	(current near1 source) same (op\$1amp (operational near1 ampli\$5)) and "345"/\$5. ccls.	US-PGPUB; USPAT	OR	ON	2008/03/06 12:09
S76	4	("6342782"   "6501467").PN. OR ("6897716").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 12:23
S77	13	("20010024186"   "5668569"   "5903246"   "6020864"   "6177767"   "6222357"   "6229508"   "6291942"   "6326938"   "6332661"   "6373454"   "6498592"   "6501449").PN. OR ("6965360").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 12:31
S78	13	("20010024186"   "5668569"   "5903246"   "6020864"   "6177767"   "6222357"   "6229508"   "6291942"   "6326938"   "6332661"   "6373454"   "6498592"   "6501449").PN. OR ("6965360").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 13:28
S79	2	10/318022	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 13:29
S80	6	("6107980"   "6175351"   "6331844"   "6509895"   "6590553"   "6639589").PN. OR ("7123234").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:02
S81	6368	reference near1 resistor	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:10
S82	294	S81 and (lcd)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:03
S83	76104	S81 and (lcd) and (op near1 amp) (operational near1 amplifier) (op\$5amp\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:04
S84	76096	S81 same (lcd) same (op near1 amp) (operational near1 amplifier) (op\$5amp\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:04
S85	3	S81 same (lcd) same ((op near1 amp) (operational near1 amplifier) (op\$5amp\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:04
S86	16	("4158786"   "4668875"   "5130703"   "5250937"   "5343221"   "5646643"   "5650801"   "5734379"   "5781001").PN. OR ("6188395").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:08
S87	82	(reference near1 resistor) and (reference near1 current) and op\$1amp	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:11



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S88	34	("3982063"   "4694225"   "5103145"   "5194780"   "5262698"   "5357172"   "5428370"   "5459480"   "5600345"   "5625373"   "5708451").PN. OR ("5910792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:14
S89	34	("3982063"   "4694225"   "5103145"   "5194780"   "5262698"   "5357172"   "5428370"   "5459480"   "5600345"   "5625373"   "5708451").PN. OR ("5910792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/06 14:40
S90	270	(second near1 (op\$1amp "operational amplifier")) and lcd	US-PGPUB; USPAT	OR	ON	2008/03/06 15:40
S91	389	(second near1 (op\$1amp "operational amplifier")) and cascade	US-PGPUB; USPAT	OR	ON	2008/03/06 15:40
S92	0	(second near1 (op\$1amp "operational amplifier")) and cascade and 345/76.ccls.	US-PGPUB; USPAT	OR	ON	2008/03/06 15:40
S93	8	(second near1 (op\$1amp "operational amplifier")) and cascade and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2008/03/06 15:59
S94	389	(second near1 (op\$1amp "operational amplifier")) and cascade	US-PGPUB; USPAT	OR	ON	2008/03/06 16:00
S95	14	(second near1 (op\$1amp "operational amplifier")) and cascade and (reference near1 resistor)	US-PGPUB; USPAT	OR	ON	2008/03/06 16:12
S96	7	"5789906"	US-PGPUB; USPAT	OR	ON	2008/03/06 16:22
S97	9339	compara\$4 and (operational amplifier) and lcd	US-PGPUB; USPAT	OR	ON	2008/03/06 16:22
S98	162	compara\$4 same (operational amplifier) same lcd	US-PGPUB; USPAT	OR	ON	2008/03/06 16:22
S99	2	compara\$4 same (operational amplifier) same lcd and (reference near1 resistor)	US-PGPUB; USPAT	OR	ON	2008/03/06 16:23
S10 0	11	compara\$4 and (operational amplifier) same lcd and (reference near1 resistor)	US-PGPUB; USPAT	OR	ON	2008/03/06 16:23
S10 1	13	("20010024186"   "5668569"   "5903246"   "6020864"   "6177767"   "6222357"   "6229508"   "6291942"   "6326938"   "6332661"   "6373454"   "6498592"   "6501449").PN. OR ("6965360").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/15 17:47
S10 2	557	current near1 drive and reference near1 resistor	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/15 17:54
S10 3	7	((("6577180") or ("6559730") or ("6013958")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/15 18:02
S10 4	2	10/026466	US-PGPUB; USPAT	OR	ON	2008/04/15 18:02

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S10 5	9	("5672993"   "5767698"   "5808508"   "6229376"   "6326836"   "6332661"   "6384638").PN. OR ("6882186").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/15 18:02
S10 6	1	"11157980"	US-PGPUB; USPAT	OR	ON	2008/04/15 18:21
S10 8	1	10/768668	US-PGPUB; USPAT	OR	ON	2008/04/17 15:32
S10 9	1	10/768668	US-PGPUB; USPAT	OR	ON	2008/11/13 12:36
S11 0	13	("20010024186"   "5668569"   "5903246"   "6020864"   "6177767"   "6222357"   "6229508"   "6291942"   "6326938"   "6332661"   "6373454"   "6498592"   "6501449").PN. OR ("6965360").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/11/13 12:39
S11 1	11	((YUTAKA) near2 (SAEKI)).INV.	US-PGPUB; USPAT	OR	ON	2008/12/02 14:03
S11 2	0	11-355607	US-PGPUB; USPAT	OR	ON	2008/12/02 14:39
S11 3	0	11-355607	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/02 14:39
S11 4	0	10-165352	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/02 14:40
S11 5	0	apple and solr and touch	US-PGPUB; USPAT	OR	ON	2008/12/02 16:57
S11 6	204	apple and solar and touch	US-PGPUB; USPAT	OR	ON	2008/12/02 16:57
S11 7	40	apple and solar and touch and pcb	US-PGPUB; USPAT	OR	ON	2008/12/02 16:57
S11 8	28	apple and solar and touch and pcb and lcd	US-PGPUB; USPAT	OR	ON	2008/12/02 16:57
S11 9	2395	345/76.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/02 18:42
S12 0	13	("20010013758"   "20010028060"   "20040070558"   "5157525"   "5216504"   "5903246"   "5910792"   "6320325"   "6424326"   "6501230"   "6710548"   "6720942"   "6836260").PN. OR ("7215307").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:42

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S12 1	35	("3982063"   "4694225"   "5103145"   "5194780"   "5262698"   "5357172"   "5428370"   "5459480"   "5600345"   "5625373"   "5708451").PN. OR ("5910792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:43
S12 2	11	("4032818"   "4525653"   "4996523").PN. OR ("6177767").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:43
S12 3	6738	reference near1 resistor	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:43
S12 4	554	reference near1 resistor same directly	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:43
S12 5	223	reference near1 resistor same directly and balanc\$\$	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:43
S12 6	223	reference near1 resistor same directly and balanc\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/02 18:43
S12 7	1	10/768668	US-PGPUB; USPAT	OR	ON	2009/05/19 12:58
S12 8	635	((MARTIN) near2 (EDWARD)).INV.	US-PGPUB; USPAT	OR	ON	2009/07/06 13:07
S12 9	48	S128 and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/06 13:08
S13 0	12	"6307532"	US-PGPUB; USPAT	OR	ON	2009/07/06 13:16
S13 1	4073	345/204.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/06 13:19
S13 2	13	((YUTAKA) near2 (SAEKI)).INV.	US-PGPUB; USPAT	OR	ON	2009/07/15 08:48
S13 3	13	((YUTAKA) near2 (SAEKI)).INV.	US-PGPUB; USPAT	OR	ON	2009/07/15 09:18
S13 4	2668	345/76.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/15 09:18
S13 5	2	"6965360"	US-PGPUB; USPAT	OR	ON	2009/07/15 09:19
S13 6	1	10/768668	US-PGPUB; USPAT	OR	ON	2009/07/15 09:26
S13 7	41591	reference near5 resistor	US-PGPUB; USPAT	OR	ON	2009/07/15 09:36
S13 8	5	reference near5 resistor and current\$1driver	US-PGPUB; USPAT	OR	ON	2009/07/15 09:37

## EAST Search History (Prior Art)

S13 9	39	("4533878"   "5111080"   "5122690"   "5263049"   "5355391"   "5418478"   "5467369"   "5485488"   "5504728"   "5519728"   "5528636"   "5739707").PN. OR ("5917340").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:39
S14 0	50	("4992676"   "5111075"   "5517129").PN. OR ("5739707").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:40
S14 1	193	("2912684"   "3051901"   "3078378"   "3267459"   "3484559"   "3508076"   "3510585"   "3560856"   "3569955"   "3571725"   "3587088"   "3648064"   "3697874"   "3731199"   "3733550"   "3753113"   "3754237"   "3761818"   "3772680"   "3798544"   "3832490"   "3860871"   "3876944"   "3927401"   "3978284"   "3988676"   "4038564"   "4070650"   "4086587"   "4097859"   "4131761"   "4181865"   "4373152"   "4382249"   "4403330"   "4408135"   "4408189"   "4438491"   "4528550"   "4571735"   "4602374"   "4628297"   "4779073"   "4805190"   "4821286"   "4823028"   "4841301"   "4860309"   "4875049"   "4888764"   "5003555"   "5023488"   "5023841"   "5045728"   "5046050"   "5115450"   "5121411"   "5126974"   "5153459"   "5172338"   "5191330"   "5194765"   "5230008"   "5243625"   "5254883"   "5280500"   "5287108"   "5295155"   "5315175"   "5331320"   "5373473"   "5408498"   "5425056"   "5426739"   "5438593"   "5459749"   "5471156"   "5473635"   "5483110"   "5508570"   "5513327"   "5525983"   "5633631"   "5640605"   "5684833"   "5734294"   "5740201"   "5793815"   "5793816"   "5796781"   "5825825"   "5872468"   "5892466"   "5898734"   "5917340"   "5933458"   "5942994"   "5946355"   "5949280"   "5969579"   "5969648"   "5977798"   "6018550"   "6037824"   "6038260"   "6049229"   "6052390"   "6067326"   "6078627"   "6084931"   "6094461"   "6101561"   "6114979"   "6122010"   "6140841"   "6195397"   "RE30182").PN. OR ("6396329").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:40
S14 2	19	("20030174744"   "4009385"   "4621376"   "4709416"   "4718118"   "4884280"   "5050239"   "5065456"   "5268916"   "5319656"   "5402433"   "5488621"   "5563898"   "5724170"   "5963570"   "6188498"   "6219165"   "6490727"   "6509994").PN. OR ("7505692").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:41

## EAST Search History (Prior Art)

S14 3	29	("4939690"   "4996669"   "5008856"   "5034926"   "5065364").PN. OR ("5280454").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:41
S14 4	41	("4630087").PN. OR ("5034926").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:41
S14 5	44	("4875188"   "5050125"   "5065364"   "5077691"   "5091888"   "5095461"   "5117394"   "5142496"   "5163021"   "5185718"   "5197034"   "5212663"   "5222040"   "5235544"   "5280454"   "5282170"   "5287536"   "5297096"   "5297148"   "5321653"   "5329168"   "5339279"   "5399891"   "5412238"   "5412609"   "5414664"   "5418752"   "5502669"   "5528546"   "5532960"   "5646890"   "5679224").PN. OR ("5818764").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 09:41
S14 6	4095	345/204.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/15 09:42
S14 7	13	("20010024186"   "5668569"   "5903246"   "6020864"   "6177767"   "6222357"   "6229508"   "6291942"   "6326938"   "6332661"   "6373454"   "6498592"   "6501449").PN. OR ("6965360").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 14:35
S14 8	28	("4573005"   "4703249"   "4716305"   "5023110"   "5057682"   "5627111"   "5637992"   "5654629"   "5880639").PN. OR ("6222357").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 14:39
S14 9	14	("20020122308"   "20030184236"   "20050030273"   "6222357"   "6323631"   "6332661"   "6353402"   "6693388"   "6756850"   "6897717"   "6909264"   "7208998"   "7301316").PN. OR ("7436248").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 14:41
S15 0	22	("4551638"   "5274323"   "5646518"   "5939949"   "6028640"   "6087820"   "6222353"   "6313615"   "6445167"   "6462584"   "6541949"   "6700360"   "6703815"   "6737849"   "6737908"   "6774666"   "6924693"   "6924696"   "6940338"   "7075281").PN. OR ("7301316").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 14:46
S15 1	822	323/316.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 14:48
S15 2	36	("3982063"   "4694225"   "5103145"   "5194780"   "5262698"   "5357172"   "5428370"   "5459480"   "5600345"   "5625373"   "5708451").PN. OR ("5910792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 14:56

## EAST Search History (Prior Art)

S15 3	21	("4257003"   "4587463"   "5093654"   "5479425"   "5633651"   "5724519"   "5761230"   "5812102"   "5966110"   "6097302"   "6097360"   "6316879"   "6400349").PN. OR ("6501449").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 15:01
S15 4	218	359/228.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 15:46
S15 5	26	359/228.ccls. and pixel	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 15:46
S15 6	14	("20020122308"   "20030184236"   "20050030273"   "6222357"   "6323631"   "6332661"   "6353402"   "6693388"   "6756850"   "6897717"   "6909264"   "7208998"   "7301316").PN. OR ("7436248").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 16:52
S15 7	36	("3982063"   "4694225"   "5103145"   "5194780"   "5262698"   "5357172"   "5428370"   "5459480"   "5600345"   "5625373"   "5708451").PN. OR ("5910792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 17:02
S15 8	21	("4257003"   "4587463"   "5093654"   "5479425"   "5633651"   "5724519"   "5761230"   "5812102"   "5966110"   "6097302"   "6097360"   "6316879"   "6400349").PN. OR ("6501449").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/15 17:05